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Modelling the "Antarctic Ozone Hole".

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Abstract:

We have performed model calculations of the ozone depletions taking place in the Antarctic lower stratosphere. Making the assumption that odd nitrogen is frozen out on polar stratospheric haze particles, an analysis is given of how much homogeneous reactions can contribute to ozone loss during September - October. Comparisons with observations indicates the potential importance of reactions with HCl in the polar stratospheric cloud particles.